

Amendments to the Specification

Please replace the paragraph beginning on page 27, line 29, with the following rewritten paragraph:

B¹ Reference sign 23 in Fig. 1 is an interface. In a data operator 15 shown in Fig. 1, the image processing of the image data stored in the data memory 14 is performed, and, on the basis of a processed result, signals are outputted to a control circuit 16 and a graphic circuit 17 of Fig. 1. Regarding the processing in the data operator, the image data is read-out from the data memory 14, such data is processed so that information regarding deviation of optical axes of the optical fibers 2, 3, positions of the end faces of the fibers and conditions of the end faces of the fibers is operated from the image, and such information is outputted to the control circuit 16 and the graphic circuit 17. The signal outputted to the control circuit 16 is outputted to a second driving device 26 through a fiber position control circuits 18, 19, thereby driving positioning members 20, 21. The driving and image processing are repeated by several times so that the optical axes of the optical fibers 2, 3 set on the positioning member 20, 21 are gradually aligned with each other.

Please replace the paragraph beginning on page 31, line 13, with the following rewritten paragraph.

B² Fig. 14 shows a second embodiment of an optical fiber observing image processing apparatus 27 according to the present invention. In this embodiment, a scanning converter (scanning converting means) 30 is incorporated into the optical fiber observing image processing apparatus 27 according to the first embodiment so that the image data captured in the data memory 14 can be displayed on the television monitor 25 through the scanning converter 30. In this case, two or more different transfer modes for transferring the image data between the data memory 14 and the scanning converter 30 can be provided. By selection of the transfer modes and selection of the capturing modes, for example, the

following operation modes ① to ⑤ can be selected and switched on the basis of program.

B2

Incidentally, the scanning converter 30 serves to adjust longitudinal magnification, lateral magnification, longitudinal offset amount and lateral offset amount of the inputted image._

Reference sign 23 in Fig. 1 is an interface.
